
Product Name: KD-Validated Methionyl Aminopeptidase 2 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAAb01504

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 52.9kDa

Antigen Information

Gene Name	METAP2
Alternative Names	METAP2; Methionyl Aminopeptidase 2; MNPEP; MAP2; P67; Initiation Factor 2-Associated 67 KDa Glycoprotein; Methionine Aminopeptidase 2; Peptidase M; P67EIF2; Testicular Tissue Protein Li 17; EIF-2-Associated P67 Homolog; Peptidase M 2; EC 3.4.11.18; P67EIF2; MetAP 2; MAP 2
Gene ID	10988.0
SwissProt ID	P50579
Immunogen	A synthesized peptide derived from human Methionine Aminopeptidase 2

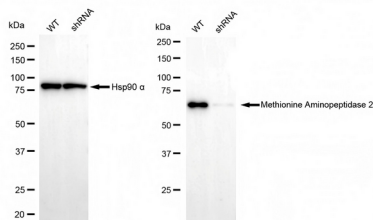
Background

The protein encoded by this gene is a member of the methionyl aminopeptidase family. The encoded protein functions both by protecting the alpha subunit of eukaryotic initiation factor 2 from inhibitory phosphorylation and by removing the amino-terminal methionine residue from nascent proteins. Increased expression of this gene is associated with various forms of cancer, and the anti-cancer drugs fumagillin and ovalicin inhibit the protein by irreversibly binding to its active site. Inhibitors of this gene have also been shown to be effective for the treatment of obesity. A pseudogene of this gene is located on chromosome 2. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]

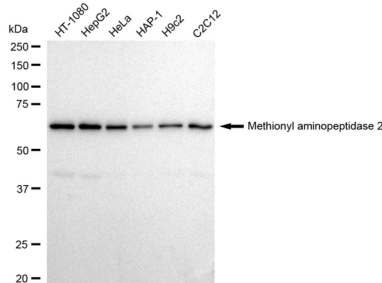
Research Area

Signal Transduction, Metabolism

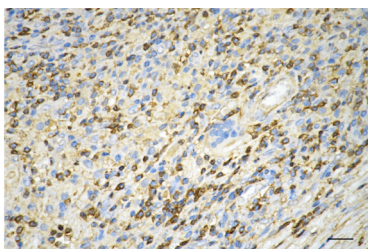
Image Data



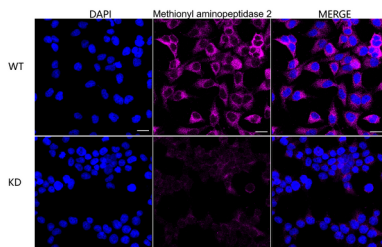
Western blotting analysis using Methionyl aminopeptidase 2 antibody (KVA01504). Methionyl aminopeptidase 2 expression in wild type (WT) and methionyl aminopeptidase 2 (METAP2) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Methionyl aminopeptidase 2 antibody (KVA01504, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



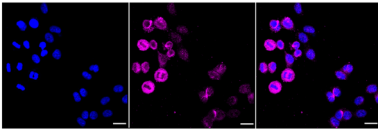
Western blotting analysis using Methionyl aminopeptidase 2 antibody (KVA01504). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Methionyl aminopeptidase 2 antibody (KVA01504, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



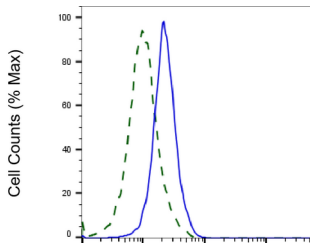
Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using methionyl aminopeptidase 2 antibody (KVA01504, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



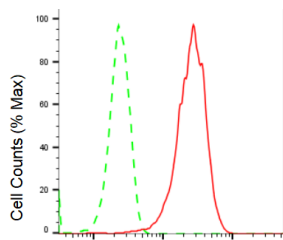
Immunocytochemical staining of HeLa cells using methionyl aminopeptidase 2 antibody (KVA01504, 1:1,000), Top panel: wild-type (WT); Bottom panel: methionyl aminopeptidase 2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Methionyl aminopeptidase 2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with methionyl aminopeptidase 2 antibody (KVA01504, 1:1,000). Nuclei were stained blue with DAPI; Methionyl aminopeptidase 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 μ m.



Methionyl aminopeptidase 2-Alexa Fluor® 647



Methionyl aminopeptidase 2-Alexa Fluor® 647

Validation of Methionyl aminopeptidase 2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Methionyl aminopeptidase 2 antibody (KVA01504, 1:2,000) and analyzed using CytoFLEX.

Flow cytometric analysis of Methionyl aminopeptidase 2 expression in HepG2 cells using Methionyl aminopeptidase 2 antibody (KVA01504, 1:2,000). Green, isotype control; red, Methionyl aminopeptidase 2.